

Title (en)  
PLANETARY ROTARY ENGINE WITH ROTARY RING VALVES

Title (de)  
KREISKOLBENMOTOR MIT DREHRINGVENTILEN

Title (fr)  
MOTEUR ROTATIF PLANÉTAIRE AVEC DES SOUPAPES ANNULAIRES ROTATIVES

Publication  
**EP 3066314 A4 20170802 (EN)**

Application  
**EP 14860422 A 20141106**

Priority  
• US 201361962371 P 20131106  
• US 2014064304 W 20141106

Abstract (en)  
[origin: WO2015069867A1] A rotary engine (40a) includes a housing (76a) and elliptical rotors (44a) mounted to rotor shafts (54a, 54b) for rotation within a chamber (46a) of the housing (76a). A valve disk (200, 202) mounted to a rotor shaft includes a port (224, 240) passing between first and second sides. A valve plate (204) includes a bore (244, 246) defining a cylindrical sidewall for rotationally receiving the valve disk. The valve disk (200, 202) includes a groove (214, 232) disposed in a wall (216, 234), and includes a ring member (218) disposed in the groove that contacts the sidewall of the bore (244, 246) when the valve disk (200, 202) is disposed in the bore. The apparatus may include multiple valve disks disposed in separate bores to operate as exhaust or intake valves. Circumferential channels (288, 290) may be included in the bore sidewalls within which the ring members are disposed.

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Citation (search report)  
• [A] DATABASE WPI Week 200828, 10 February 2008 Derwent World Patents Index; AN 2008-D95542, XP002771262  
• See references of WO 2015069867A1

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